

10/527407

PEI/ZA/00133

Sertifikaat

REPUBLIEK VAN SUID AFRIKA

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Certificate

REPUBLIC OF SOUTH AFRICA

PATENT OFFICE
DEPARTMENT OF TRADE AND
INDUSTRY

REC'D 24 MAY 2004

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the documents annexed hereto are true copies of:

Application forms P.1, P2, and provisional specification and drawings
of South African Patent Application No. 2002/7353 as originally filed in the
Republic of South Africa on 13 September 2002 in the name of SERI PRINT S.A
(PTY) LTD and an applicant substituted to ANTHONY WILLIAM GOODYER
on 12 September 2003 for invention entitled: "COPYPRINTER."

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PRETORIA

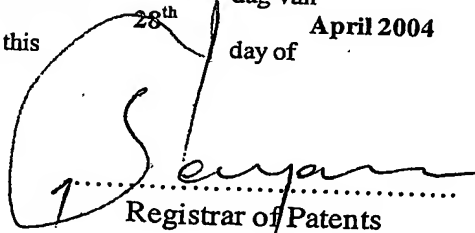
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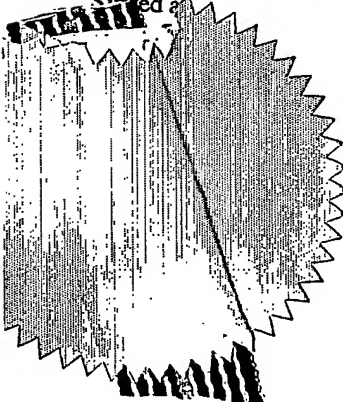
in the Republic of South Africa, this

dag van

28th April 2004

day of


Registrar of Patents



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FORM P2 (IN DUPLICATE)

REPUBLIC OF SOUTH AFRICA	REGISTRAR OF PATENTS	PATENTS ACT, 1978
OFFICIAL APPLICATION NO. 2002/1553	LODGING DATE: PROVISIONAL	ACCEPTANCE DATE
INTERNATIONAL CLASSIFICATION:	LODGING DATE: COMPLETE	GRANTED DATE
FULL NAME(S) OF APPLICANT(S)/PATENTEE(S)		
SeriPrint S.A. (Pty) Ltd		

APPLICANTS SUBSTITUTED:	
71 ANTHONY WILLIAM GOODYER	12 . 09 . 2023
ASSIGNEE(S)	
71	

DATE REGISTERED

FULL NAME(S) OF INVENTOR(S)
Anthony William Goodyer

PRIORITY CLAIMED	COUNTRY	NUMBER	DATE
NB. Use International abbreviation for country (See Schedule 4)	33 N/A	31	32

TITLE OF INVENTION
54 COPYPRINTER
ADDRESS OF APPLICANT(S)/APPLICANTS
P O Box 1326, Fontainebleau, 2032

ADDRESS FOR SERVICE	REF.
74 MORRISON FORSTER INC. P O BOX 2004 MOUNT EDGECOMBE 4300	553811

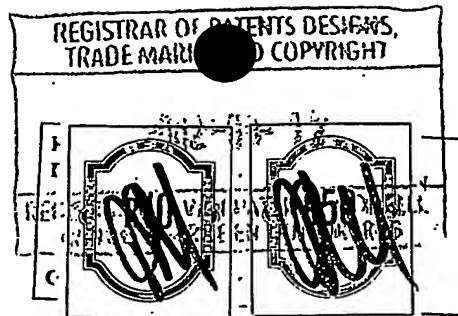
DATE REGISTERED

PATENT OF APPLICATION NO.	DATE OF ANY CHANGE
61	
FRESH APPLICATION BASED ON	DATE OF ANY CHANGE

FORM P.1
(in duplicate)

REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978

APPLICATION FOR A PATENT
AND ACKNOWLEDGMENT OF RECEIPT
(SECTION 30(1) - REGULATION 22)



The grant of a patent is hereby requested by the undermentioned application on the basis of the present application filed in duplicate

OFFICIAL APPLICATION NO.

21 120012/7353

(i) OUR REFERENCE NO. 553 811

APPLICANTS SUBSTITUTED
12.09.2003

71 SeriPrint S.A. (Pty) Ltd / ANTHONY WILLIAM GOODYER

(iii) ADDRESS(ES) OF APPLICANTS

P O Box 1326, Fontainebleau, 2032

(iv) TITLE OF INVENTION

54 COPYPRINTER

(v) PRIORITY IS CLAIMED AS SET OUT ON THE ACCOMPANYING FORM P.2.
(vi) THIS APPLICATION IS FOR A PATENT OF ADDITION OF PATENT APPLICATION NO.

21 01

(vii) THIS APPLICATION IS A FRESH APPLICATION IN TERMS OF SECTION 37 AND BASED ON APPLICATION NO.

21 01

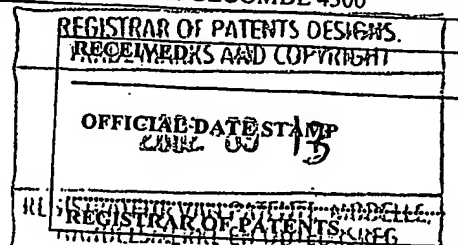
(viii) THIS APPLICATION IS ACCOMPANIED BY

XX	1. A single copy of a provisional specification of 4 pages
XX	2. Drawings of 3 sheets
	3. Publication particulars and abstract (form P.8 in duplicate)
	4. A copy of Figure of the drawings (if any) for the abstract.
	5. Assignment of invention
	6. Certified priority document(s) (State number)
	7. Translation of the priority document(s)
	8. An assignment of priority rights.
XX	9. A copy of the form P. 2
	10. A declaration of power of attorney on form P.3.
	11. Request for ante-dating on form P.4
	12. Request for classification on form P.9
	13

(ix) ADDRESS FOR SERVICES : MORRISON FORSTER INC. P O BOX 2004 MOUNT EDGECOMBE 4300

Dated this 12 day of September 2002

MORRISON FORSTER INC.
APPLICANT'S PATENT ATTORNEYS



MORRISON FORSTER INC.

FORMP6

REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978
PROVISIONAL SPECIFICATION
(Section 30 (1) - Regulation 27)

OFFICIAL APPLICATION NO

LODGING DATE

OUR REFERENCE

21 01 2002/7353

2002-09-13

553 811

FULL NAME(S) OF APPLICANT(S)

71 ScriPrint S.A. (Pty) Ltd

ANTHONY WILLIAM GOODYER

FULL NAME(S) OF INVENTOR(S)

72 Anthony William Goodyer

TITLE OF INVENTION

54 COPYPRINTER

FIELD OF THE INVENTION

This invention relates to a copyprinter of the stencil printing type.

BACKGROUND OF THE INVENTION

In our RSA Patent 97/11077 a copyprinter was described which includes a chamber for directly receiving copies requiring a drying or other treatment process to overcome the problems of ink setoff. The chamber includes UV or other treatment unit/s.

In one form of the invention an endless conveyor is provided through the chamber, the trailing roller of which is hollow and is perforated, and is adapted to receive a vacuum with means under the conveyor to break the vacuum or otherwise release paper after it has been rotated through more than 90 degrees.

Whereas this copyprinter has enjoyed great success there is a risk that should the printer malfunction for any reason, a situation can occur where the belt/s become stationary, the cooling system being switched off and the lamps remain on. The belt/s are exposed to the UV lamps at high temperatures and are subject to severe damage.

Whereas these situations can be monitored by the provision of suitable sensors and safety circuits and the like, this is complicated and expensive. A thermo sensor does not react quickly enough to prevent overheating of the belt/s and these may catch alight after a short time.

It is an object of the present invention to eliminate or at least greatly reduce the possibility of heat damage to the belt/s of a copyprinter.

THE INVENTION

According to the invention a copyprinter includes a belt/s for transporting paper (or other substrate) from a printing station to treatment station, the conveyor terminating before the

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treatment station and including means to transfer the paper or substrate to the treatment station, and means to remove the paper or substrate after treatment.

In a preferred form of the invention the treatment station includes a vacuum bed which, when the paper is released from the conveyor, receives the paper into the desired treatment position.

Nip rollers may be positioned at the exit of the treatment station and these serve to release the paper from the conveyor and to draw the paper into position.

The arrangement obviates travel of the belt/s under the treatment lamp and thus reduces or eliminates the chance of fire. In addition a thermo sensor may be located under the lamps to deactivate them when they reach a predetermined elevated temperature.

The nip rollers also serve to prevent any UV light leakage from the exit of the treatment station. This constitutes a further safety factor.

EMBODIMENT OF THE INVENTION

An embodiment of the invention is described below with reference to the accompanying drawings, in which:

Figure 1 is a side view of an arrangement according to the invention,

Figure 2 is a plan view thereof,

and

Figure 3 is an end view.

In the drawings a conveyor 10 runs on rollers 12, 14 over a vacuum bed 16.

The roller 14 is located at the entrance 18 to the treatment station 20 which comprises a lamp 22 in a box 24.

A vacuum bed 30 is located under the lamp and receives paper from the conveyor by virtue of the nip rollers 32 which draw the paper over the vacuum bed 30 -where a vacuum is applied and the paper is firmly located in position for the UV treatment. When this treatment is complete the vacuum is released and the paper removed via the nip rollers.

Dated this 12 day of September 2002



MORRISON FORSTER INC.
APPLICANTS' PATENT ATTORNEYS

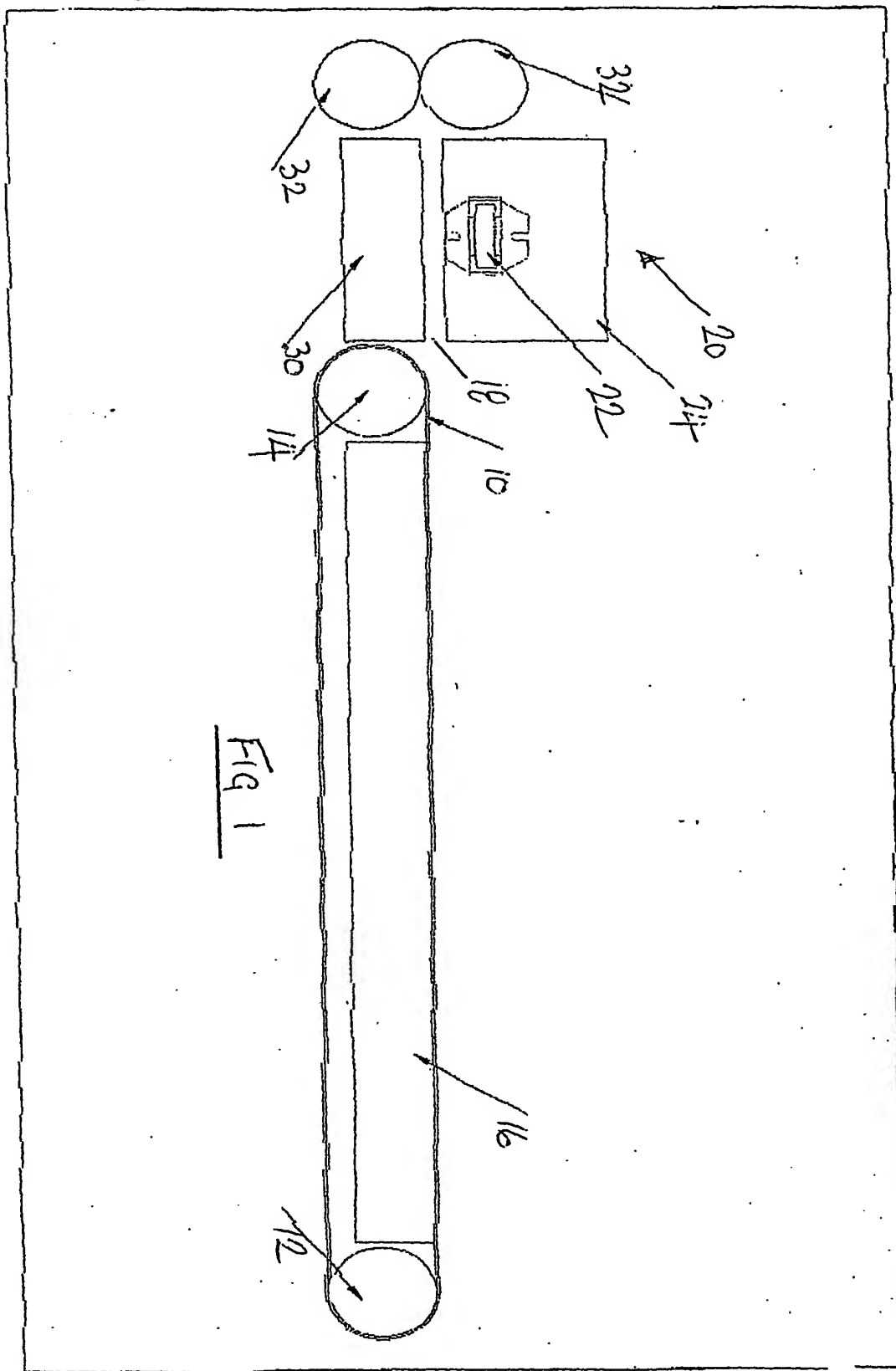
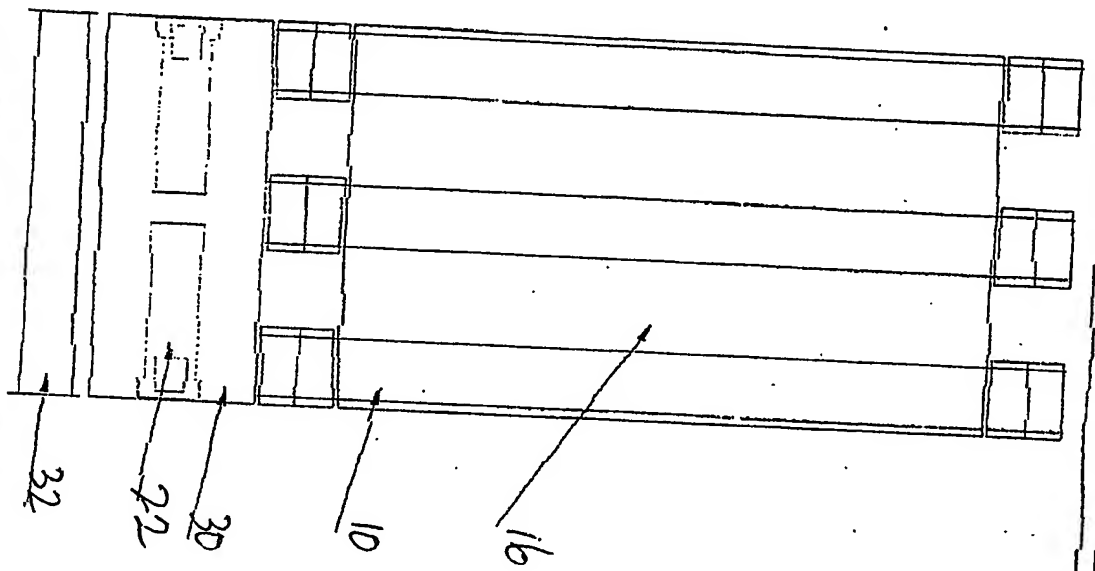


Fig 1

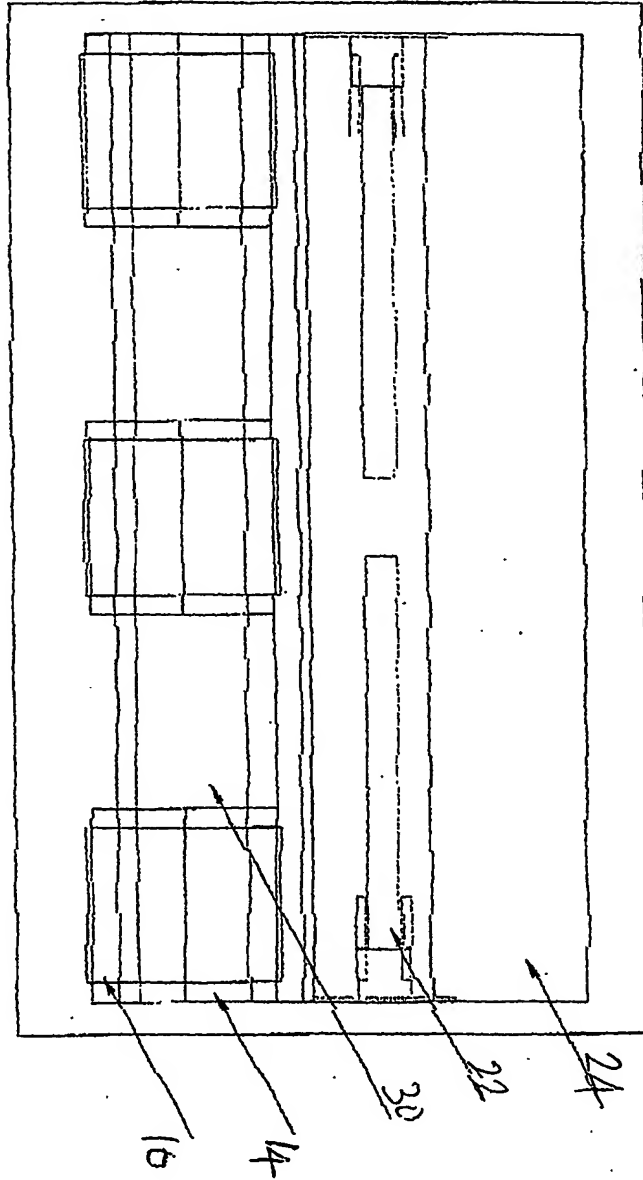
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Fig 2



3 SHEETS
SHEET 3

FIG 3



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